

Phone #: 203-560-7060
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Robotics and artificial intelligence; computer vision; machine learning; intelligent user interfaces; brain-machine interfaces; virtual reality systems; video game design

- Over four years of work experience as a research assistant on clinical and laboratory studies.
- Neuroscience and Molecular Biology Skills and Knowledge:
 - DNA, RNA, and cDNA Preparation
 - PCR; RT-PCR
 - RT-PCR
 - Agarose Gel Electrophoresis
 - Molecular Cloning; Vector Design; Cell Culture
 - Primer Design
 - RNA-seq; RNAi; in situ hybridization
 - Bacterial transformation; electroporation
 - Immunohistochemistry
 - Homologous recombination
 - Brain sectioning and mounting
 - Neural Recording (intracellular and extracellular micro-electrodes)
 - Insect and Animal husbandry
 - Intramuscular injections
 - Designing and implementing fitness tests
 - Dissection of multiple organisms
- Computer Skills
 - MS Office Suite; SPSS; Minitab; Geneious; imageJ, MATLAB, Python
- Strong leadership and teamwork skills demonstrated in academic, work and volunteer experiences.

2006-2010

Graduated in the top 10% with a GPA of 3.83.

Brunswick, ME

2010-2014

B.A. – Double major in Neuroscience and Anthropology; Premed Graduate with a focus on Molecular Biology and Genetics; Overall GPA: 3.4

South Windsor, CT.

2014

Graduated from South Windsor CPR Training Professionals, LLC with a 94% grade point average. Passed the 6-stage EMT state practical test (Nov. 8th) on the first attempt.

South Windsor, CT.

2014

Successfully completed the cognitive and skills evaluations in accordance with the curriculum of the American Heart Association BLS for Healthcare Providers (CPR and AED) Program. Issued August 22nd 2014.

EMPLOYMENT HISTORY

Bowdoin College Q-Reasoning **Brunswick, ME.** **Fall, Spring 2010-2014**
Worked for the Q-Reasoning program as a tutor for biology, chemistry, and math. Acted as a study group leader, conducted individual tutoring, and been involved in drop-in tutoring.

Head Academic Mentor for Rugby Team **2011-2014**
Acted as an Academic Mentor for my varsity rugby team to improve individual GPAs and achieve academic goals. Tasks included providing time management, study skills, organization skills, test-taking tips, reading skills (to increase speed of reading), writing skills, note-taking skills, and tutoring for Rugby players.

Bowdoin Science Experience (BSE) Mentor **2011-2014**
Promoted life sciences, mathematics, physics, and computer science to incoming freshman during a pre-orientation camp once a year. Designed, organized, and implemented science programs including laboratory experiences, mathematical games, research presentations, organizational exercises, marine life tours, and trips.

Baldwin Mentor **2011-2014**
Trained and mentored students at Bowdoin College in time management, organizational skills, note-taking skills, test-taking skills, speed reading, writing skills, memory improvement, and study skills.

Child and Adult Psychiatric Services **Waterbury, CT.** **2014-January 2017**
Was in charge of the office's billing, accounting, bookkeeping, and transcription. Routinely worked with Peachtree and MedicsPremier software while utilizing the ADS system and Emdeon to submit claims. Restructured most of the old billing procedures to reduce paper consumption, improve payment rate, and reduce the number of open claims. Developed routine protocols to immediately flag claims for resubmittal, identify unjust denials, and improve overall efficiency of billing and bookkeeping. Also gained experience with graphic design and advertising when recruited by the company to create a series of program brochures and improve patient turnout.

AWARDS AND ACHIEVEMENTS

Harvard Book Club Award **2010**
The Harvard Book Award is an award given out by the alumni of Harvard University to the top-performing student in his/her senior year from 1,900 "selected" high schools.

Headmaster's Award **2010**
Award given to both a graduating girl and boy, who have made unique contributions to Chase Collegiate in ways that bring great credit to the school.

National AP Scholar **2010**
Granted to students in the United States who receive an average score of at least 4 on all AP Exams taken, and scores of 4 or higher on eight or more of these exams.

Howard Hughes Medical Institute Fellowship **2011**
Awarded for Academic Research while at Bowdoin College

Athletes Academic Award for Excellence **Bowdoin College** **2012, 2013, 2014**
Awarded to Varsity Sports players for academic excellence

Child and Adult Psychiatric Services Waterbury, CT. 2016-2017

Github and Website Portfolio 2016-2017

RESEARCH EXPERIENCE

Research Assistant Department of Chemistry at Bowdoin College 2010-2011

Research Assistant Department of Biology at Bowdoin College 2011-2014

Research Internship Department of Gastroenterology at BIDMC June-August 2013

Research Assistant Department of Neuroscience at Bowdoin College Sept-Dec 2013

SPECIAL SKILLS

- *Highly experienced with Microsoft Word, Excel, PowerPoint, OneNote, and Geneious.*
- *Advanced experience with Adobe Photoshop and Gimp. Intermediate knowledge with MATLAB, beginner knowledge of Python.*
- *Basic experience with HTML and CSS and Java coding, to the point that I was able to construct a website.*
- *Basic experience with C/C++ as seen in an Arduino IDE*

Data Analysis

Highly experienced with SPSS and Minitab:

- Have performed parametric one-tailed and two-tailed t-tests with an understanding of the difference between within and between-subjects
- Have performed one-way between-subjects ANOVA (specific group comparisons or post-hoc comparisons performed if a significant effect was found)
- Have performed two-way between-subjects ANOVA, multifactor between-subjects ANOVA, one-way within-subjects ANOVA, two-way within-subjects ANOVA, multifactor within-subjects ANOVA, and ANOVA tests with both between-subjects and within-subjects factors
- Have performed non-parametric tests including the Wilcoxon signed-rank test, Wilcoxon rank-sum test, Mann-Whitney U Test, Kruskal-Wallis Test, and Friedman test
- Have performed Chi-square tests and Cochran's Q test;
- Have performed standard tests to determine mean, median, mode, variance, and standard deviation.

CONFERENCE PARTICIPATION

Stauffer, J., Shah, A. **A Novel Method: Captured Segment Exchange.** *Maine Biological and Medical Sciences Symposium*, Maine, April 2012.

Parsons, C., Shah, A. **The Function of HCNEs in *Drosophila melanogaster*.** *Maine Biological and Medical Sciences Symposium*, Maine, April 2013.

Stauffer, J., Shah, A. **The Functional role of the HCNE *tsh* in *Drosophila melanogaster*.** *Society of Neuroscience Conference*, San Diego, November 2013.

PUBLICATIONS

Genetics Journal

2012

Bateman, J. Palopoli, M. Dale, S. Stauffer, J. Shah, A. Johnson, J. Walsh, C. Flaten, H. and Parsons, C. *Captured Segment Exchange: A Strategy for Custom Engineering Large Genomic Regions in *Drosophila melanogaster*.* <<http://www.genetics.org/content/early/2012/11/06/genetics.112.145748.abstract>>

GIE: Gastrointestinal Endoscopy Journal

October 4th 2014

Leffler, D. Bukoye, B. Sawhney, M. Berzin, T. Sands, K. Barnett, S. Shah, A. Chowdry, S. *Development and Validation of the Procedural Sedation Assessment Survey (PROSAS) for Assessment of Procedural Sedation Quality.* [www.giejournal.org/article/S0016-5107\(14\)02055-0/abstract](http://www.giejournal.org/article/S0016-5107(14)02055-0/abstract)

Amazon Kindle

April, 2016

Shah, Anita. *Book One of the Wayward Trilogy: Scarce A Whisper.* Connecticut: Anita Shah. 2016. E-book.